

Intelligent Transportation Systems in North Carolina

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Presentation Outline

- **ITS - What, Why, Who and How**
- **ITS in Action in North Carolina**
- **ITS - A Typical Scenario**
- **Future Presentations**

What are “Intelligent Transportation Systems” or “ITS”?

Using Technology to Save



- Additional tools to address mobility and safety
- Uses information, technology, and communications to manage & optimize the transportation infrastructure
- Allows coordination across modes, across users, and across jurisdictions

Time, Lives, and Money

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Why

“Intelligent Transportation Systems” ?

- “Incidents” cause approximately **60** % of all congestion
- Increasingly difficult to add new roads or add capacity to existing roadways
- \$1M/Mile for ITS versus \$40M/Mile for New Freeway
- Information Age & Rising Expectations

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How does NCDOT do “Intelligent Transportation Systems” ?

- Planning and Funding by
Traffic Operations - Traffic Engineering Branch
- Design and Construction Engineering by
Traffic Mgmt Systems - Traffic Engineering Branch
- Operations and Statewide Traveler Information
ITS Operations - Operations
- Day to Day Operations and Maintenance
Highway Divisions

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Stakeholder Teams and Strategic Deployment Plan



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Intelligent Transportation Systems

in Action in North Carolina

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Commercial Vehicle Operations



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Public Transportation

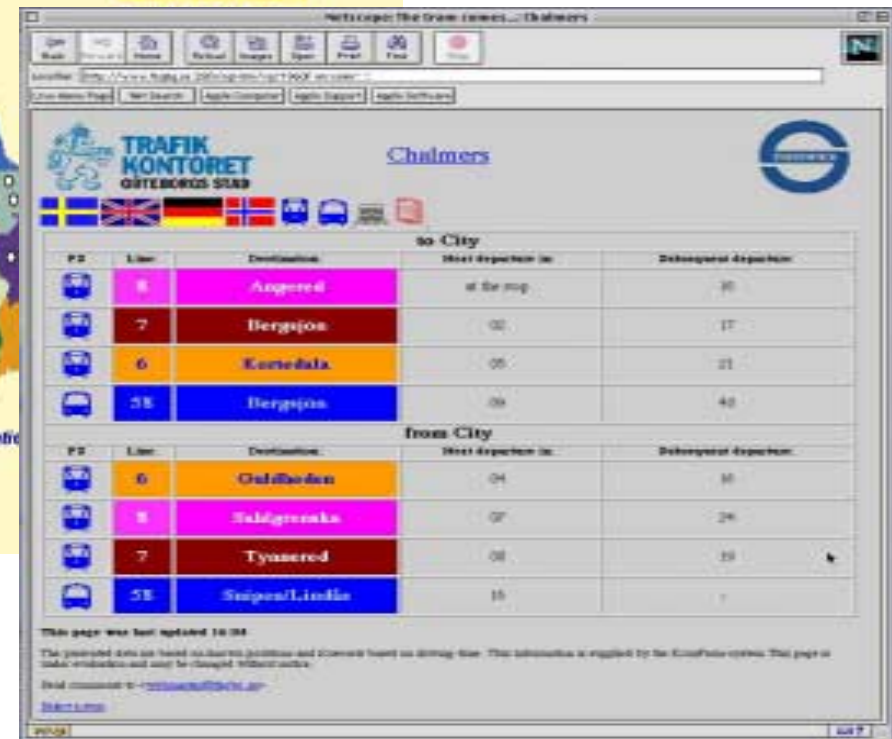
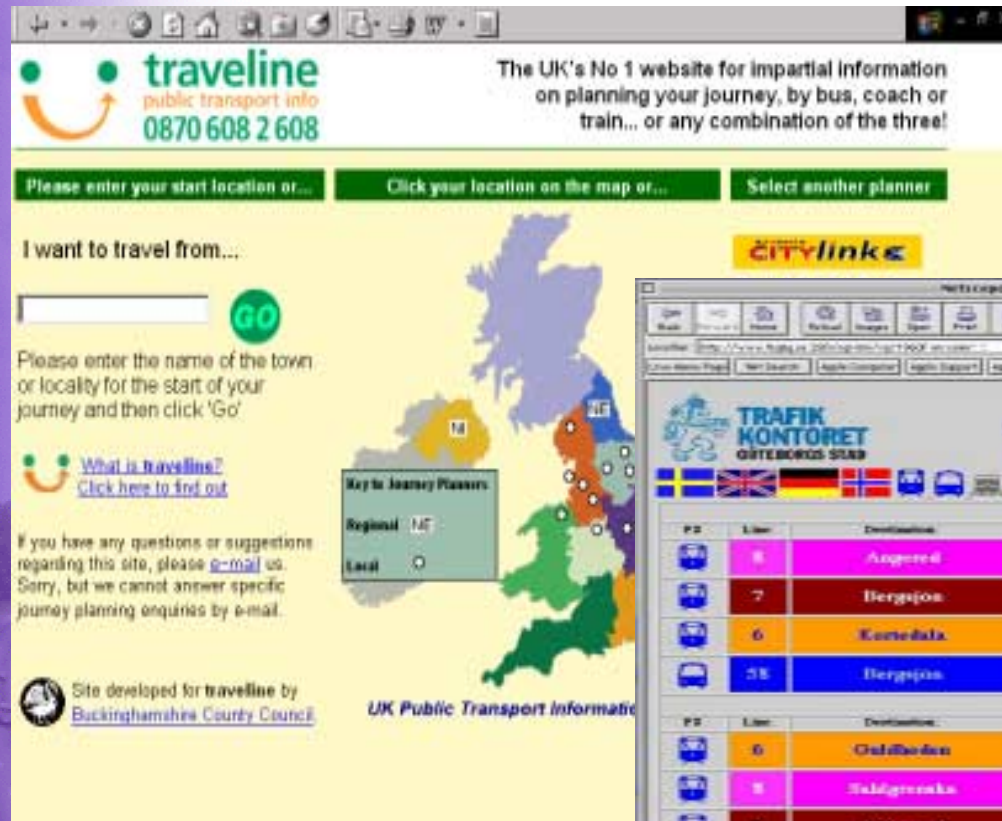


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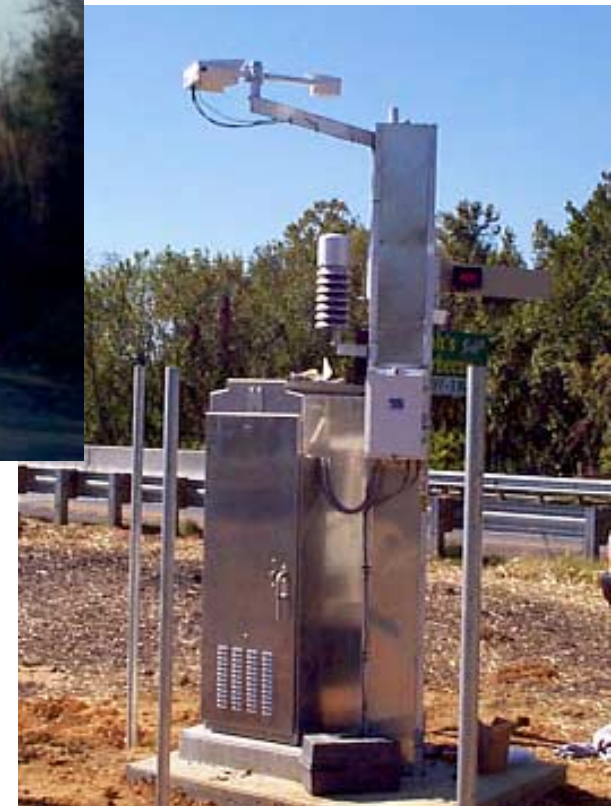
Public Transportation



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Rural Deployments



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Transportation Management Centers

Charlotte

Raleigh - Durham



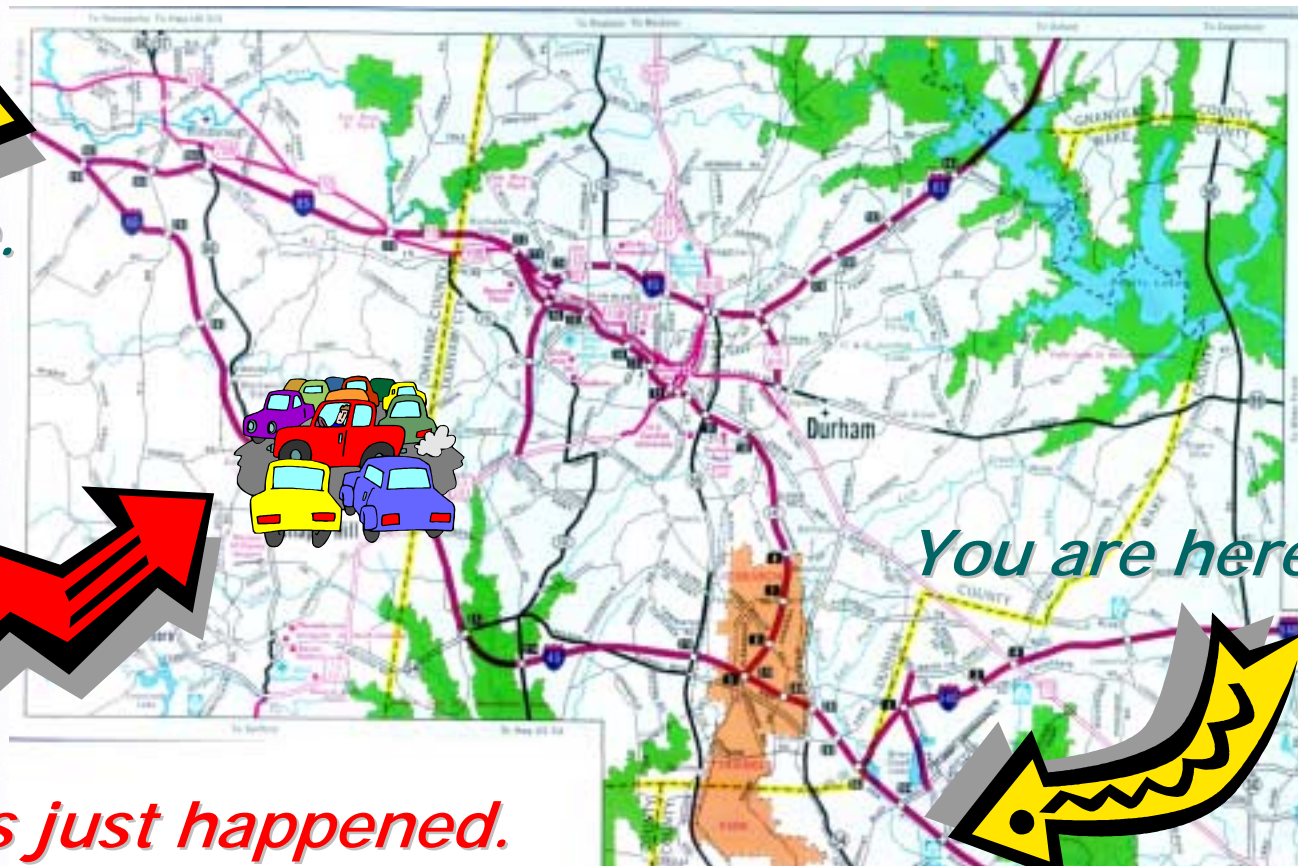
Greensboro

Winston-Salem

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How Does NCDOT Use ITS Technologies?



You are here.

And this just happened.

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Intelligent Transportation Systems

Detection



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Transportation Management Centers



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Incident Management Assistance Patrol (IMAP)



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Dynamic Message Signs



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Traffic Signal Coordination



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Highway Advisory Radios



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Media



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The Internet

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**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

STATEWIDE MOUNTAINS METROLINA TRIAD TRIANGLE SOUTHEAST NORTHEAST CITY SEARCH HELP

REAL TIME TRAVEL CONDITIONS | 511 | TRAFFIC INCIDENT MANAGEMENT | ITS STRATEGIC DEPLOYMENT | ITS EDUCATION | ITS INDUSTRY | RELATED LINKS

STATEWIDE
REAL TIME TRAVEL CONDITIONS

SMARTlink

OPTIONS

- ☐ Traffic Cameras
- ☒ Incident Detection
- ☐ Public Transportation
- ☐ Automatic Traffic Recorders
- ☐ Dynamic Message Signs
- ☐ Highway Advisory Radio
- ☐ Traffic Signals
- ☐ Roadway Weather Information
- ☐ State Attractions

REAL TIME TRAVEL CONDITIONS
View accurate, real-time transportation information to help make informed decisions about your travel options. As you zoom in closer to a specific region, more options will become available in the legend.

LEGEND

- Bus
- Ferry
- Rail
- Road Work
- Incident
- Hazmat
- Single Camera
- Message Sign

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The Result for the Driver



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More on Incident Management



April 30

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More on Traveler Information



June 4

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Questions?

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